



MATERIAL SAFETY DATA SHEET - MSDS

according to Regulation (EC) No. 1907/2006
and complies with regulation (EU) 2015/830

Version 2.0

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Rev.01

SECTION1: Identification of the substance or mixture and identification of company/firm

1.1 Identification of product

Name of the product : PhotoACTIVE Ag TM

Food contact : NO

Code product : PA-Q07-H2O-AG

REACH : All the ingredients of this mixture have the No. REACH

1.2 Relevant identified purposes of the substance/mixture and Undesirable uses

Uses : SU3 – Industrial uses; SU22 – Professional uses

1.3 Details of the supplier of the safety data sheet

Company : Virus Communication
11 rue Jules Guesde
69230 St Genis Laval FRANCE

Tel. and Fax : +33 9 83 38 56 25

E-mail : contact@photoactive.fr

1.4 Emergency telephone number

Emergency Phone: Italy +39 02-6610-1029 (Centro Antiveleni Niguarda Ca' Grande – Milano)

For transportation in Europe, Central America and South America, Israel and Africa
(not for Arabic-speaking countries): +32 3 213 15 70

For transport in the Middle East (excluding Israel) & African-speaking countries of
Arabic: +32 3 213 33 79

For shipping in USA and Canada: 1-877 986 4267

For transport in Asia and Pacific (excluding China): +65 62 64 78 36

For transportation in China: 400 88 71 190

SECTION2: Hazards identification

2.1 Classification of substances or mixture

Mixture

Classification according to Regulation (CE) no. 1272/2008

The mixture is not classified as dangerous according to regulation (EC) No. 1272/2008. Any additional information regarding health and / or environmental risks are reported in sect. 11 and 12 of this sheet.

As for the full text of the hazard statements mentioned in this paragraph, refer to paragraph 16.

2.2 Label elements

Labelling according to Regulation (EC) n. 1272/2008

On the basis of COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

List of hazard classes, hazard categories and concentration limits for which a substance is to be listed as a substance in a mixture in subsection 3.2.

29.5.2015 EN Official Journal of the European Union I. 132/15

1.1 Hazard class and category	Concentration limit %
Hazardous to the aquatic environment - Acute, category 1	≥ 0,1
Hazardous to the aquatic environment - Chronic, category 1	≥ 0,1

Pictogram None, quantity lower than the environmental hazard limit.

Hazard statements H410 Very toxic to aquatic life with long lasting effects.

No Warning

Label elements

Labelling according to Regulation (CE) no. 1272/2008

None

Safety advice phrases

P210 Keep away from heat / sparks / open flames / heated surfaces. Not smoking.

P260 Do not breathe aerosols.

P262 Avoid contact with eyes, skin or clothing.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301 + P310 IF SWALLOWED: immediately contact a POISON CENTER or a doctor.
P401 Keep away from food, feed or drink.

2.3 Other dangers none

SECTION 3: Composition/ information about ingredients

3.1 Substances

NA

3.2 Mixture

Non-hazardous mixtures according to regulation (EC) No. 1272/2008

Description	Formula	% into mixture	Nr. CAS / EINCES / REACH	Risk phrase
Water	H ₂ O	Just enough for 100%	7732-18-5 / 231-791-2	None
Titanium dioxide	TiO ₂	=< 0,99%	13463-67-7 / 236-675-5 REACH 01-2119489379-17	(*)
Reaction mass of titanium dioxide and silver chloride	TiO ₂ AgCl	=< 0,05%	Not assigned	(*) (**)

(*) For complete risk phrases see paragraph 16. Compliant with Regulation (EC) No. 1272/2008 concerning the classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1

(**) Subject to reg. 528/2012 BPR of 22/05/2012, present in the list Art. 95 at PT 1, 2, 4, 6, 7, 9, 10 and 11. See paragraph 16.1. The user must request authorizations for use according to current legislation.

SVHC: In this product, NONE of the substances included in the Candidate List in article 59 (1.10) of REACH EC No.

1907/2006 was intentionally added in a concentration > 0.1%

For Risk phrases P-H look at section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Show this safety data sheet to the doctor.

If Inhaled

If inhaled, carry the person to fresh air. If the person does not breathe, give artificial respiration.

In case of contact with skin

Wash with soap and plenty of water.

In case of contact with eyes

Rinse carefully with plenty of water for at least 15 minutes.

If swallowed

Do not induce vomiting. Do not give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 on the labelling and / or in section 11.

4.3 Indication of possible immediate medical attention and special treatments

Not available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Appropriate extinguishing media

Use spray water, dry chemicals or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advices for firefighters

None

5.4 Additional information

Use spray water to cool unopened containers.

SECTION 6: Actions in case of accidental release

6.1 Personal precautions, protective equipment and procedures in case of emergency

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Look at Section 8 for personal protective equipment.

6.2 Environmental Protection

Avoid leakage or spillage, if this can be done without danger. Do not let product enter drains.

6.3 Methods and materials to retaining and reclaim

Retain and collect the liquid poured with an electrically protected vacuum cleaner discharge or by wet-brushing and place in container for disposal according to local regulations (look at section 13).

6.4 References to other sections

For disposal look at section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contacts with eyes and skin.
For precautions look at section 2.2.

7.2 Conditions for safe storage, and possible incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Close the open containers carefully and keep upright to prevent leakage.

7.3 Final specific uses

Look at section 1.2. Others use not contemplated.

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

Pictograms



Components with exposure limits

It contains no substances with limit values of professional exposure.

8.2 Exposure controls

Adequate technical controls

Handle in accordance with good industrial hygiene practices and safety. Wash hands before breaks and at the end of a workday.

Individual protection

Eye protection/face protection

Visor and protective glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

Skin protection

Handle with gloves. Gloves must be inspected before being used. Using an adequate technique for the removal of the gloves (without touching the outer surface of the glove) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with the current laws and good laboratory practices. Wash and dry your hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686 / EEC and the standard EN 374 derived from it.

Full contact

Material: butyl rubber minimum thickness: 0.3 mm permeation time: 480 min.

Splash contact, Material: Nitrile rubber minimum thickness: 0.2 mm Permeation time: 38 min.

Source: test method: EN374

Physical protection

Waterproof clothing, flameproof, antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the workplace.

Breathing protection

Where risk assessment shows the need for air-purifying respirators, use a full-face respirator with combined filter type ABEK (EN 14387) as a backing to technical measuring. If the respirator is the only protective device use a full-face ventilated system. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure control

Avoid further leakage or spillage, if this can be done without danger. Do not let product enter drains

SECTION 9: Physical and chemical properties

9.1 Information about basic physical and chemical properties

A	Appearance-Physical state	Liquid
A1	Colour	Whitish
B	Odor	None
C	Olfactory threshold	Not available
D	pH	From 1.8 to 3.3
E	Melting point/freezing	Not available
F	Initial boiling point and boiling range	Not available
G	Flashpoint	Not available
H	Evaporation rate	Not available
H1	Humidity	Liquid product

I	Flammability (solids, gas)	Not available
J	Upper flammability /lower or explosive limits	Not available
K	Vapor pressure	Not available
L	Vapor density	Not available
M	Relative density	0,97 g/cm ³
N	Water solubility	Water-soluble
O	Partition coefficient n-octanol/water	Not available
P	Self-ignition temperature	Not available
Q	Decomposition temperature	Not available
R	Viscosity	Not available
S	Explosive properties	Not available
T	Oxidative properties	Not available

9.2 Other safety information

Not available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not available

10.2 Chemical stability

Stable

10.3 Dangerous reactions known

Not available

10.4 Conditions to be avoided

Heat, flames and sparks. extreme temperatures and direct sunlight.

10.5 Incompatible materials

Alkali metals, oxidizing agents, Peroxides.

10.6 Hazardous decomposition products

Other Hazardous decomposition products - no data available

In case of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral LD50 - Rat -> 10,000 mg / kg

Remarks: Lungs, chest or respiration: other changes

CL50 Inhalation - Rat - 10 h - 20000 ppm

Skin corrosion / irritation

Leather - On rabbit

Result: No skin irritation - 24 h

(Guidelines 404 for the OECD Test)

Serious eye damage / serious eye irritation

Eyes - On rabbit

Result: Slight eye irritation - 24 h

(Guidelines 405 for the OECD Test)

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen known or expected by the IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Further information

The chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information**12.1 Toxicity**

Acute / prolonged aquatic toxicity to fish:	
CL50 Fresh water fish	No data
CL50 Marine water fish	> 10,000 mg / l - Duration h: 96
Acute / prolonged aquatic toxicity on aquatic invertebrates	
EC50 - Species: Fresh water invertebrates	> 5.000 mg / l - Duration h: 48
LC50 - Species: Marine water invertebrates	No data
Acute / prolonged aquatic toxicity on aquatic plants:	
EC50 - Species: Fresh water algae	No data
NOEC - Species: Fresh water algae:	No data
Chronic aquatic toxicity	
NOEC - Species: Sea invertebrates	No data
Toxicity to soil organisms	
EC10 / LC10 or NOEC - Species: soil macro-organisms	No data
EC10 / LC10 or NOEC - Species: soil microorganisms	No data

Toxicity on terrestrial plants:	
NOEC - Species: Terrestrial plants	No data
Toxicity to bacteria	
EC50 - Activated sludge	> 10,000 mg / l - Duration h: 3
General effect	
No data	
Further information	
None	

12.2 Persistence and degradability

No data available

12.3 Bioaccumulation potential

No data available

12.4 Mobility in soil

No data available

12.5 Assessment results PBT and vPvB

PBT/vPvB assessment not available because it has not required or not carried out the chemical safety assessment.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by- products should at all times comply with the law about environmental protection and

waste disposal legislation and the requirements of any relevant local authorities. Dispose of surplus and non-recyclable products through authorized waste disposal company. The untreated waste should not be disposed of in the sewer system unless they are not fully compliant with the requirements of each institution and legislation.

Contaminated containers

Dispose of as unused product

SECTION 14: Transport information

14.1 UN

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2 UN Shipping Name

AND, ADR, RID, IMDG, IATA: NONE

14.3 Transport hazard class: NONE

Pictograms: NONE

14.4 Packaging group

AND, ADR, RID, IMDG, IATA: NONE

14.5 Environmental hazards

AND, ADR, RID, IMDG, IATA: NONE

14.6 Special precautions for users

NOT RESTRICTED

This material is not subject to the transport regulations dangerous goods. The single packaging or outer packaging must not be UN-approved but must be a good quality packaging.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION 15: Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Health, safety and environmental regulations, legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for this product.

SECTION 16: Other information

Full Text of hazard (H) indications mentioned in section 2-3:

H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

None

Full Text of P Phrases mentioned in section 2-3:

P210 Keep away from heat / sparks / open flames / heated surfaces. Not smoking.
P260 Do not breathe aerosols.
P262 Avoid contact with eyes, skin or clothing.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301 + P310 IF SWALLOWED: immediately contact a POISON CENTER or a doctor.
P401 Keep away from food, feed or drink.

REACH

Declaration of Conformity to REACH Legislation (Directive 2006/1907/EC dated 18/12/2006).

We inform you that the additives you purchase are produced by Virus Communication are mixture or mixture of polymer part and or masterbatch. According to the REACH legislation, "preparations" must not be registered separately, provided that the individual parts of the preparation are (pre-) registered. All the ingredients of this mixture / formula / masterbatch have the nr. registration to REACH. The information received from the suppliers has been verified on the available databases, therefore this mixture / formula / masterbatch is in compliance with the REACH regulation. Furthermore, according to the REACH regulation, polymers are exempted from registration (Article 2, (9)). L&G buys all raw materials for "preparations" from qualified suppliers, checks that all the documents on the raw materials purchased comply with the REACH regulation and has not received any letter of renunciation of the (pre-) registration of the ingredients. L&G will constantly inform its customers about any developments in REACH.

BIOCIDAL

All the ingredients of this mixture are regulated and authorized by EFSA and FDA. The active ingredients with biocidal function contained in this mixture are in order with the presentation of the biocidal product protocol, and the dossier has been regularly presented by the manufacturer. The biocidal principle contained in this mixture is authorized for food contact by EU regulation no. 528/2012 referred to in Annex V, the type of product 1, 2, 4, 6, 7, 9, 10 and 11. The dossier, as required by regulation, has been regularly presented by the manufacturer within the terms provided, as well as shown in art.95 of the list of approved biocides. (list subject to continuous revisions until 2024, date set by the European commission for the analysis of all the active ingredients containing a biocide). Any authorizations must be requested by the user.

FURTHER INFORMATION

This Safety Data Sheet has been produced in accordance with Regulation (EC) No 1907/2006. The information provided in this Safety Data Sheet is correct to our knowledge at the time of publication. The information is provided as an indication for proper handling, processing, storage and disposal and does not represent any guarantee or quality specification as the conditions under which the above operations will be performed are outside our control. The information refers solely to the product covered in this sheet and may not be valid if this product is used in conjunction with other materials or in processes other than those specified in the text. Virus Communication does not accept any liability for any loss or damage resulting from the use of such data, information or suggestions. Our technical data provides directions for the application possibilities of our products. Cannot be provided in the technical and safety data sheets the material behaviours, such as color variations, shade variations, influence on dyes, prints and their constancy properties, degree of hydrophilicity, elimination of bacterial loads, aging resistance, etc. All this is under the responsibility of the user. Our recommendations are in line with our present state of knowledge and do not offer any warranty. So internal and initial mass tests are absolutely necessary. Any variations in the ingredients of this formulation can be made without any prior notice from us. Virus Communication is not liable for damages due to improper application or demand against our explicit recommendations. Precautions and legal regulations should be observed when handling chemicals. This MSDS replaces the previous ones.